

Big Picture on African Urbanization: Unprecedented City Building...

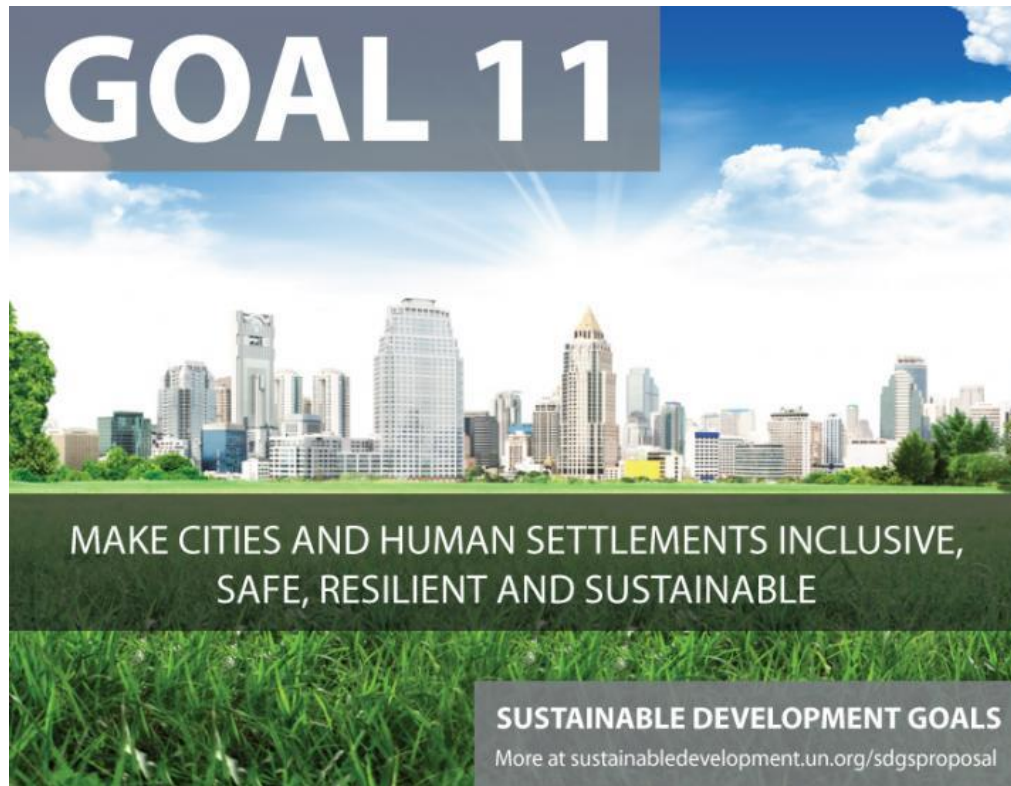


Current Trends....

air pollution, crashes, congestion, obesity, vulnerability to climate change and shocks... growing GHG emissions... vehicle recycling...

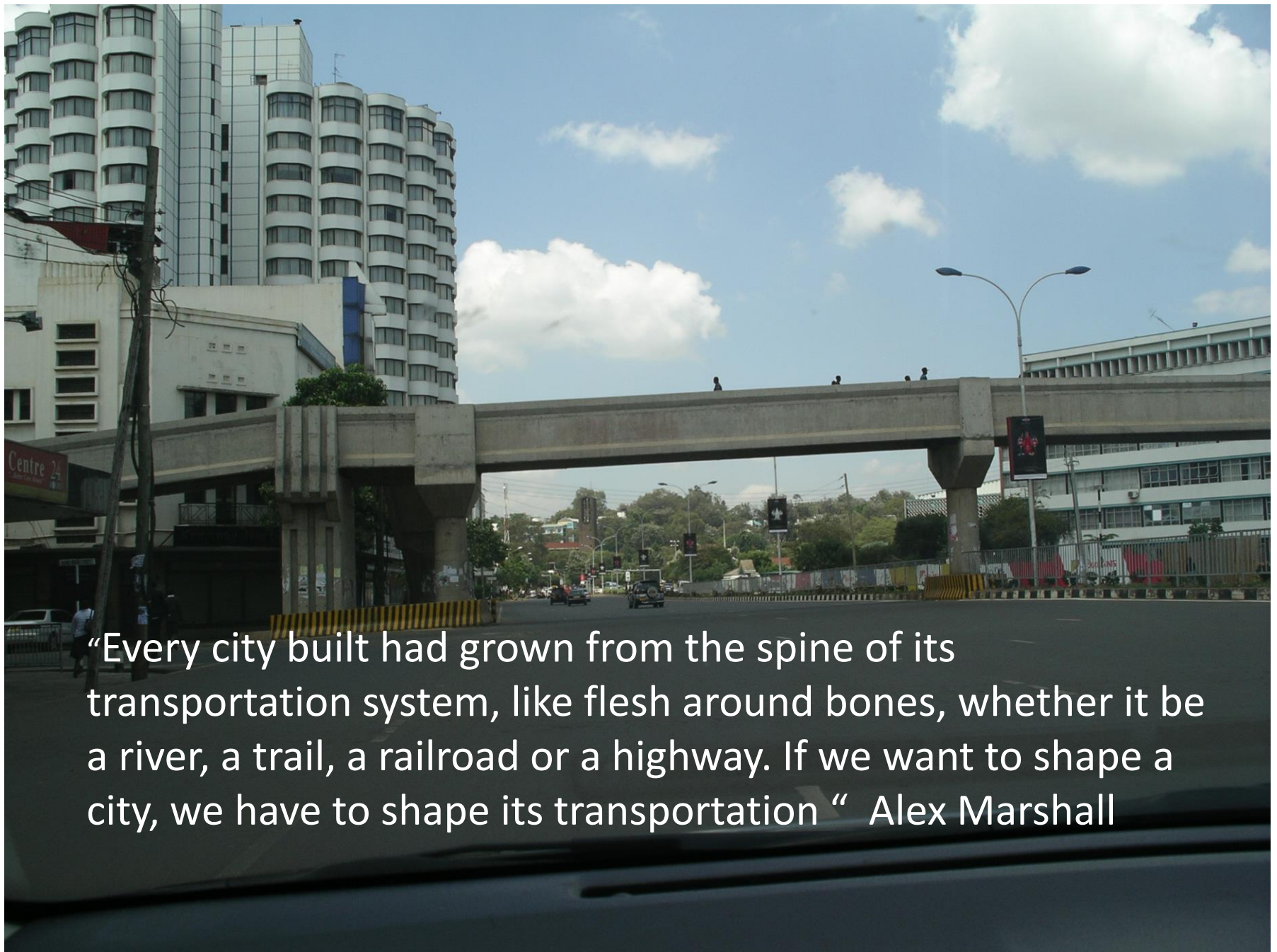


Urban Sustainable Development Goal



By 2030, provide access to **safe, affordable, accessible and sustainable transport systems for all**, by improving road safety, notably by **expanding public transport**, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.

Sub-target 11.2



“Every city built had grown from the spine of its transportation system, like flesh around bones, whether it be a river, a trail, a railroad or a highway. If we want to shape a city, we have to shape its transportation “ Alex Marshall

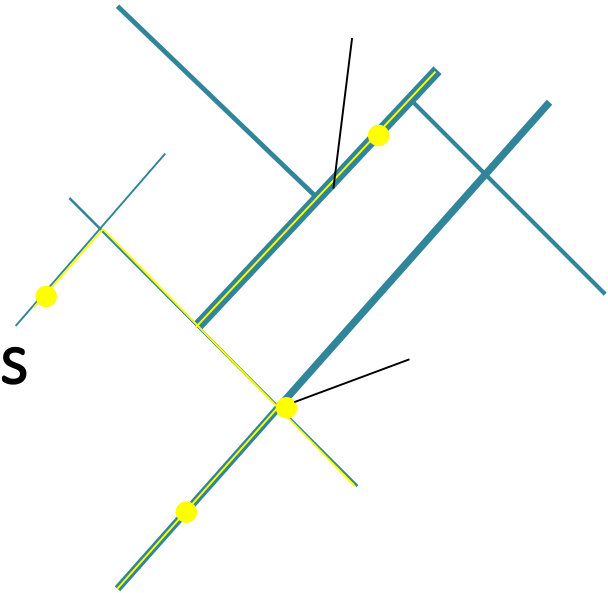
Opportunity: the vast majority of urban residents take public transport or walk in African Cities....



high and growing cellphone use...

Poor or Missing Data for Public Transport including Minibus Systems!

- No Maps/Passenger Information/Apps
- Few planning tools
- No modelling/understanding of dynamics for better interventions
- Benchmarking project impacts?
- Monitoring (SDG 11)?

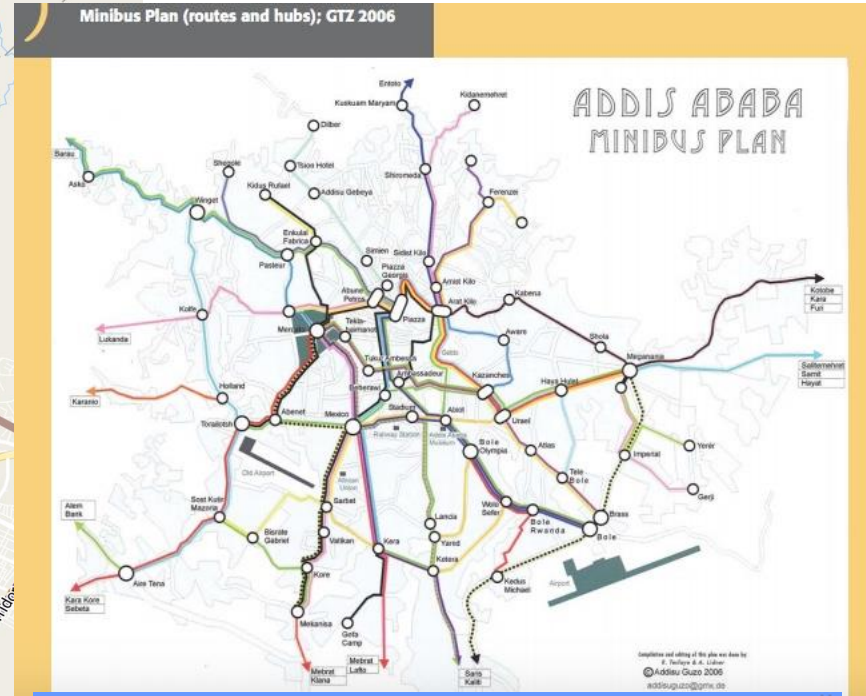
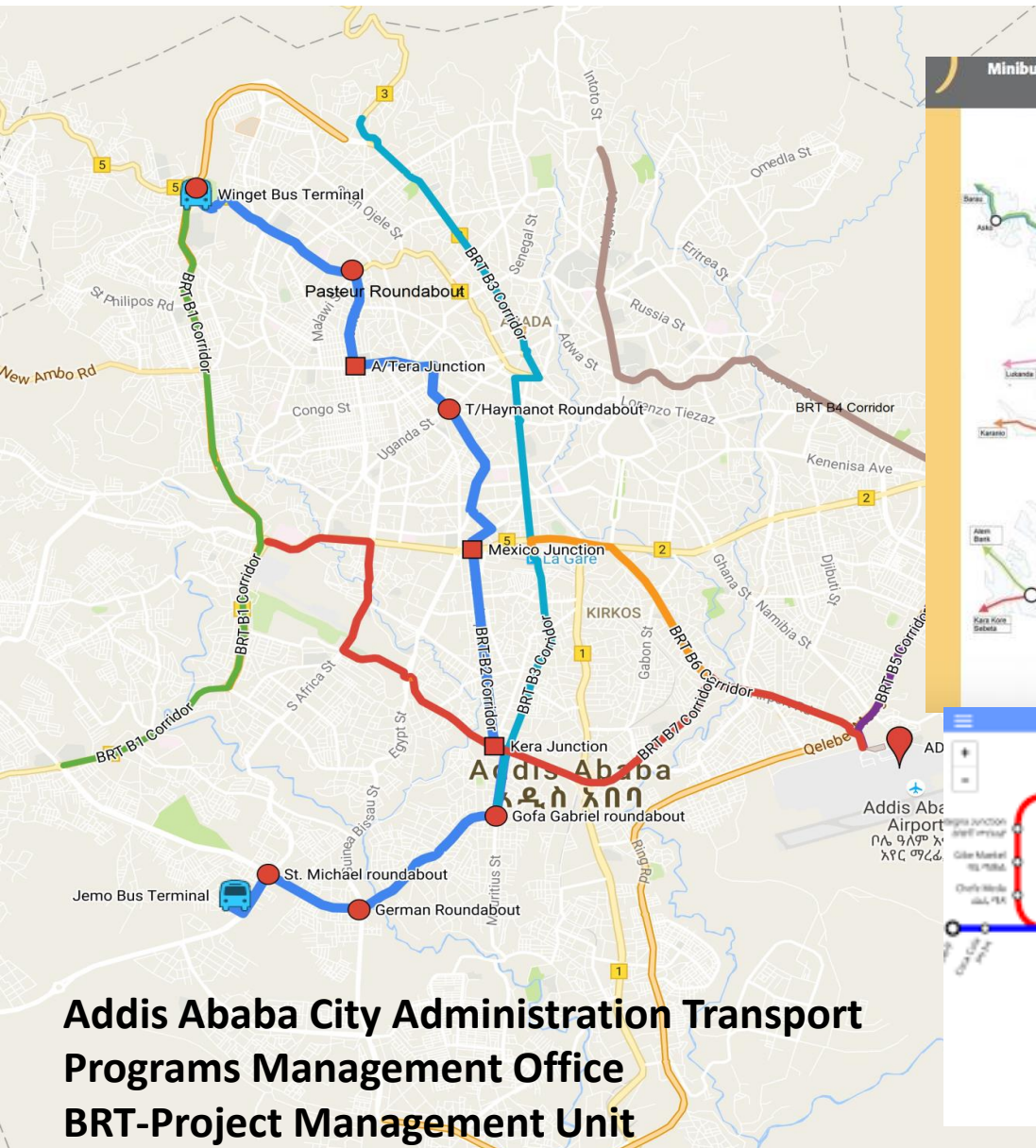


Data Inequality



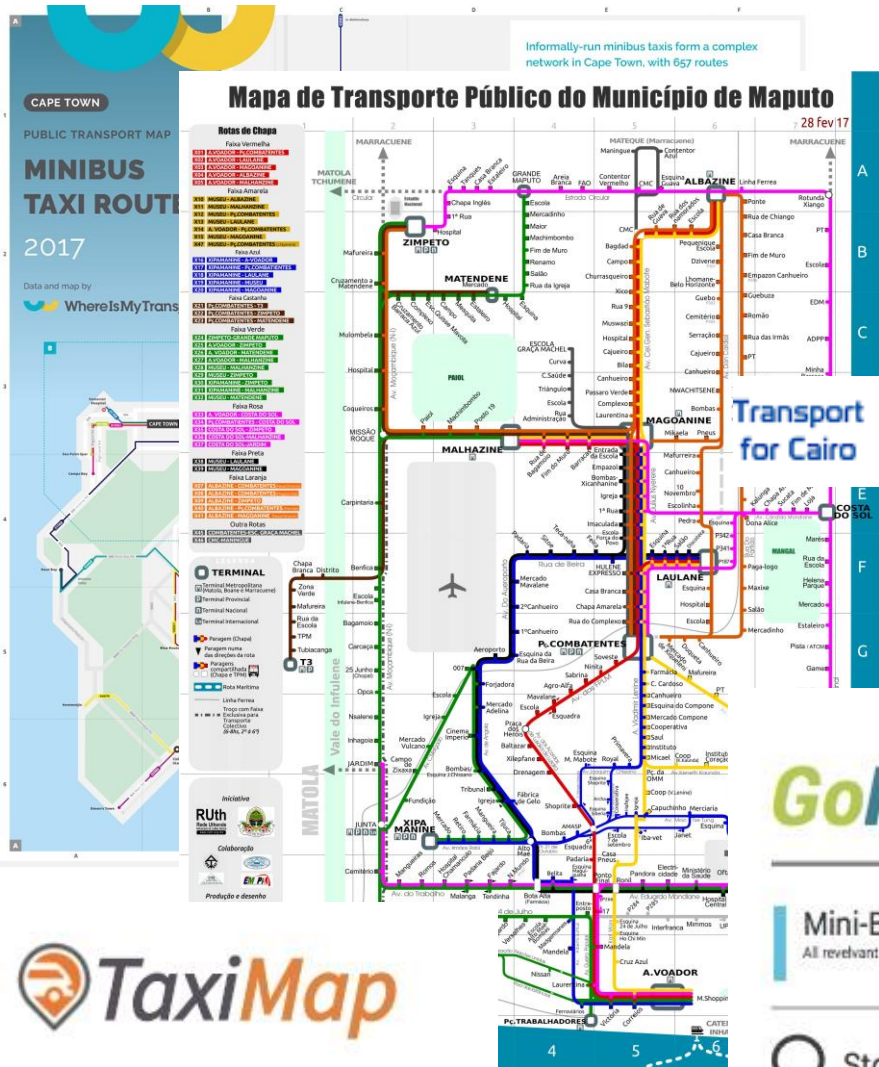
Large parts of Africa have no standardized transit data...

Data for an Integrated Network?

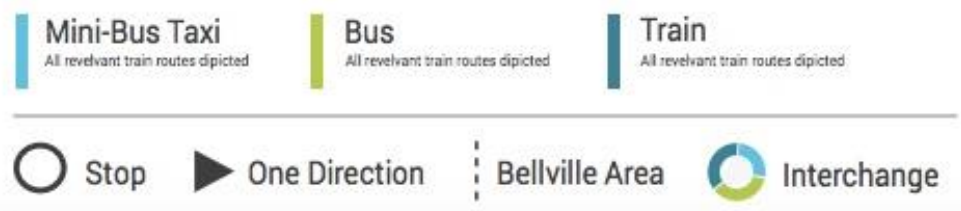


**Addis Ababa City Administration Transport Programs Management Office
 BRT-Project Management Unit**

Mapping is expanding in African cities but needs urgent scaling up...



GoMetro Bellville Map



We are moving towards mobility as a service with data as the critical underlying infrastructure

techwee: T-Mobile Wi-Fi 7:16 AM 93%

Driving Statistics (February 20, 2017):
Distance: 60.7 km
Ignition On: 4 hrs 36 mins
Today's Safety Rating: 1/5
Overspeeding Events: 3
Acceleration Events: 1
Hard Braking Events: 1

Google Maps Route:
Start: Adams Arcade Round About, Next To S...
End: Kencom House, Off Moi Avenue, City-H...
Options: Leave now

Ride-Sharing Suggested Routes:

Route	Cost	Time
1 (Bus) in 11, 31 min from 116 St - Columbia University	\$2.75	40 min
1 • N Q (Bus) in 11, 31 min from 116 St - Columbia University	\$2.75	41 min
Walking • D • Walking in 16 min from 125 St	\$2.75	60 min
Walking • A • Walking Next 7:27 AM, 7:47 AM from 116 St	\$2.75	61 min
M60-SBS • 4 6 (Bus) Next 7:33 AM, 7:53 AM from Broadway/W 120 St	\$2.75	58 min

Africa can leapfrog but needs to build data & innovation eco-systems and use them to improve public transport

